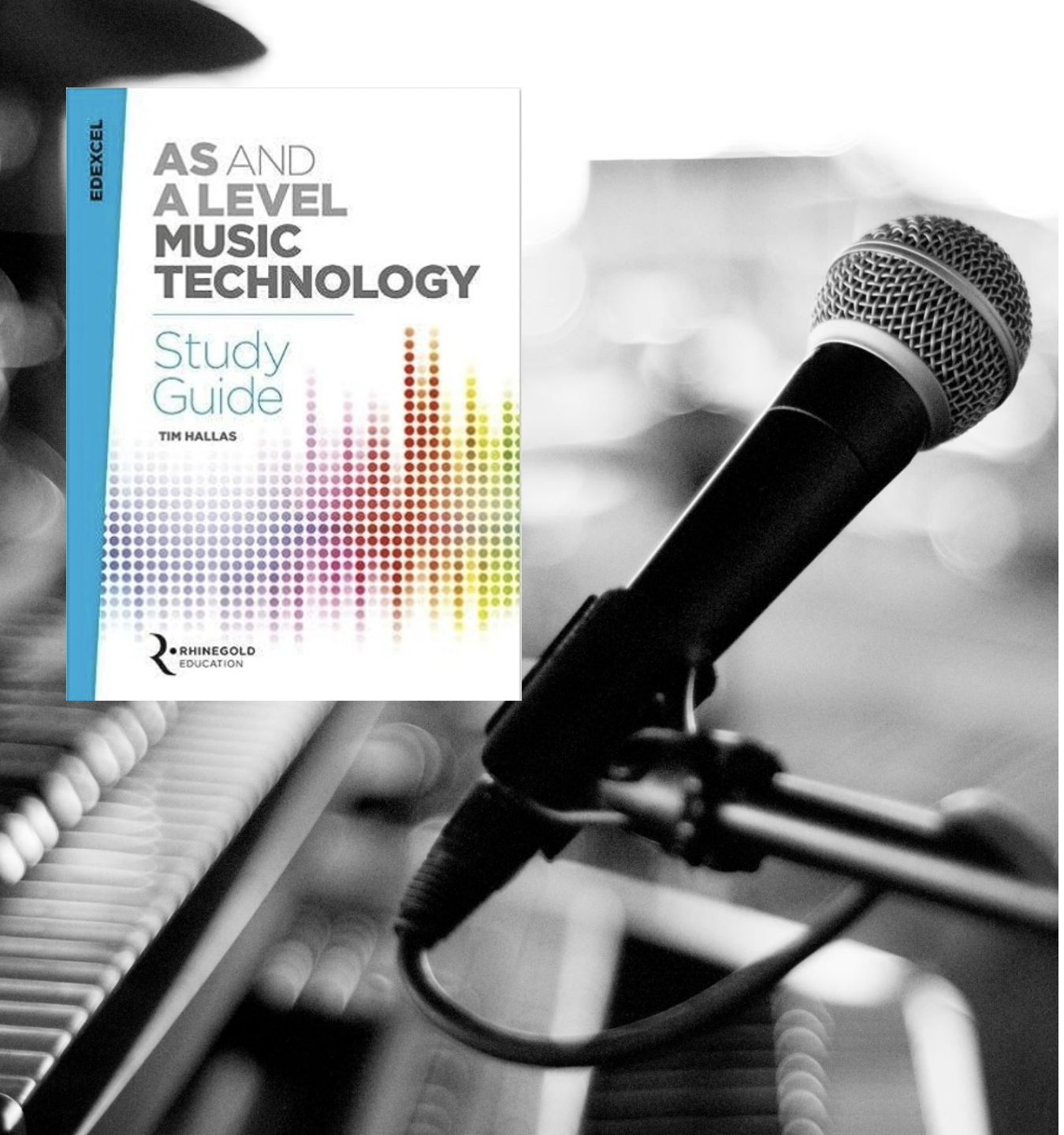
Music Technology

Week 4

Music Technology Contents

- Review Homework
- **Listening**
- Sound Gym
- **Mix 2**
  - Gain structure
  - Levels
  - File Management
  - Panning/ Stereo



Textbook + Folder

- Go to the library and get a copy of: Music Technology Study Guide
- Get a Folder to hold all of your paperwork
- Bring a pen and paper or notebook to the lessons.

Listening Exercise – Captain Beefheart

Take notes for the homework.

- Instrumentation?
- Panning?
- Effects? E.g. Delay
- Recording Process in 1974 (e.g. Mono, Multitrack Tape, Digital) and the impact.

Acoustic recordings
1877

Electronic Mics 1925

Magnetic tape 1945

Digital 1975

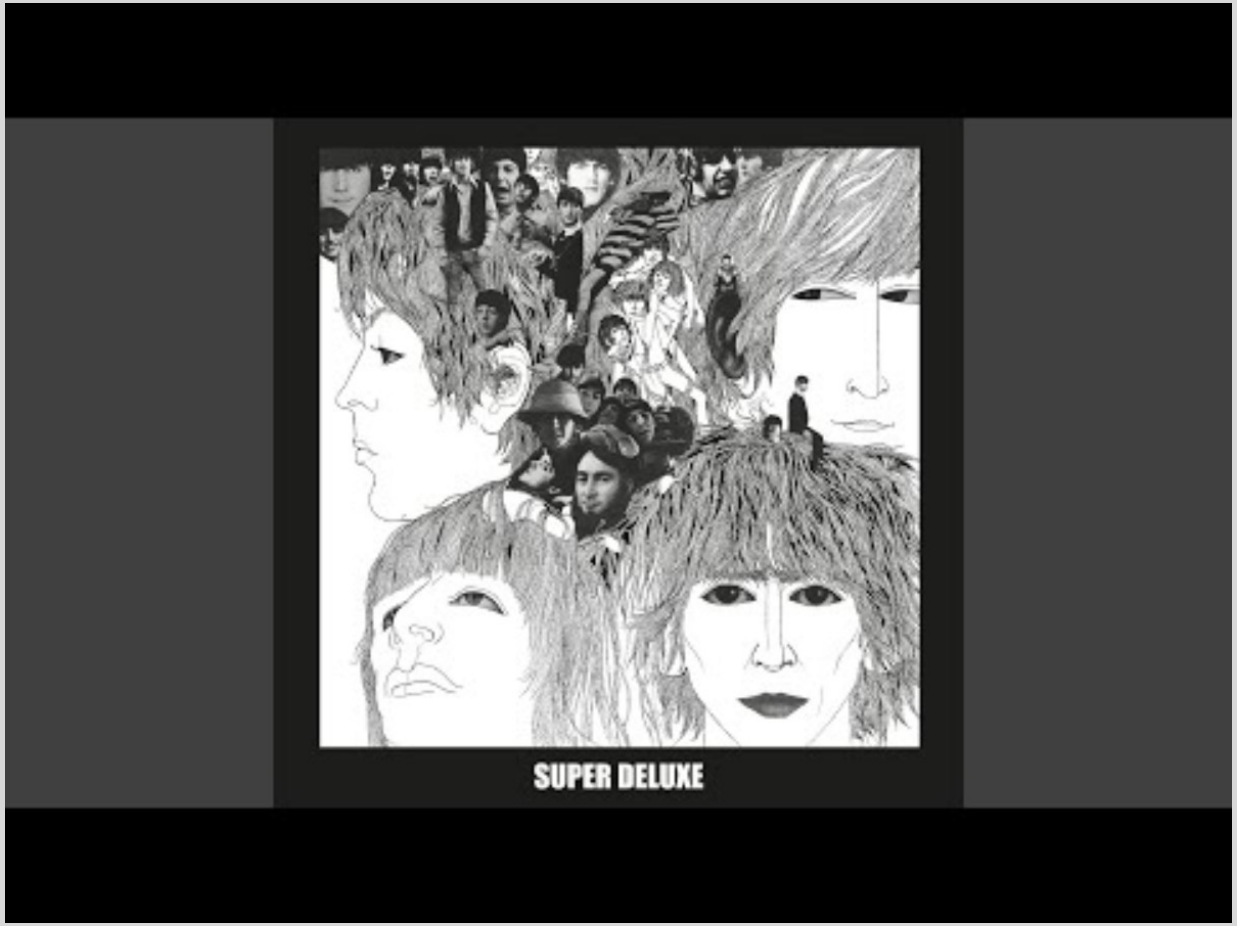
Dynamic Processing

- Compressor
- Limiter
- Gate
- Expander

Listening Exercise – Tomorrow Never Knows

- Dynamic Processing?
- Use of Tape?
- Production Techniques?
- Recording process?
- Effects?

- Watch the sound from 13.40



Listening Exercise – A Little You 1955

- Recording process?
- Characteristics of a 1950s recording?
- Instrumentation
- Dynamic Processing?
- Production Techniques?
- Effects?
- Mastering?
- Modern Remastering?

Listening Exercise – A Little You

- The U 47, introduced in 1949, was a technical revolution and is still considered the indisputable reference for perfect sound. With its well-balanced, extremely vivid response and excellent low-noise performance, this tube microphone raised the bar to a whole new level. Although production had to be discontinued in 1965, the U 47 has remained an extremely sought-after studio microphone that no world-class studio should be without.
- The U 47 is the first Neumann microphone developed after the Second World War. Instead of reissuing pre-war models, Georg Neumann decided to make a fresh start, as tube technology in particular had made enormous progress. This meant that the housing could be designed relatively compact – by the standards of the time. Electronic polar pattern switching between cardioid and omnidirectional was a complete novelty. Swapping capsule heads was no longer necessary, and the capsule could be integrated into the microphone housing. This was the birth of the modern studio microphone.

Listening Exercise – Praise You

- Fatboy Slim used Akai S950 samplers on his 1999 hit song "Praise You".

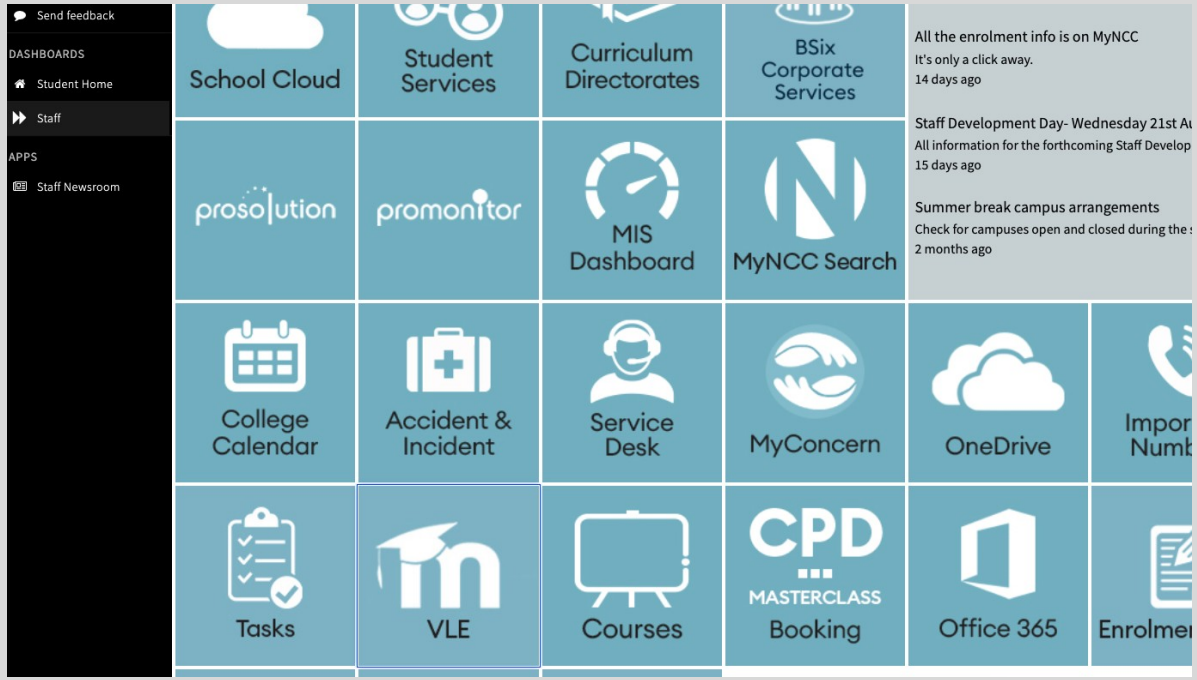
- The song features a prominent vocal sample from the opening of "Take Yo' Praise" by Camille Yarbrough, as well as a prominent piano sample from the track "Balance and Rehearsal" from a test album entitled Sessions released by audio electronics company JBL in 1973.

Listening Exercise – Praise You

- What are sample rates?
- Audio sampling is the process of transforming a musical source into a digital file. Digital audio recording does this by taking samples of the audio source along the soundwaves at regular intervals. The more samples you take - known as the ‘sample rate’ - the more closely the final digital file will resemble the original. A higher sample rate tends to deliver a better-quality audio reproduction.
- The audio bit depth determines the number of possible amplitude values we can record for each audio sample.

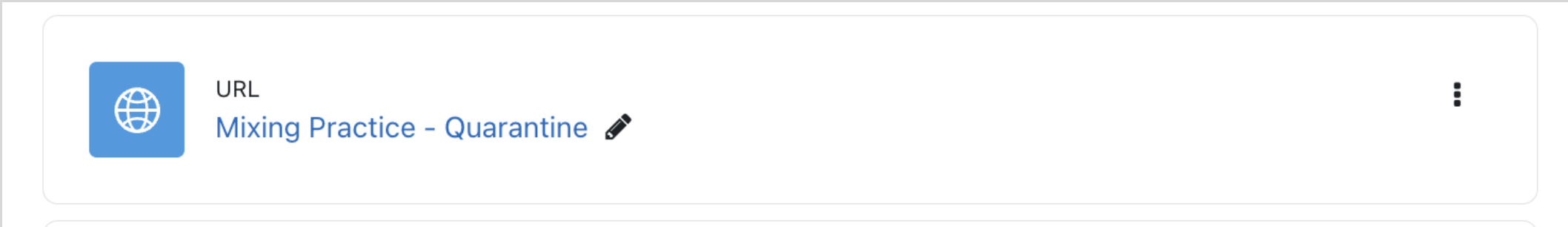
Listening Exercise – Praise You

Mixing Task

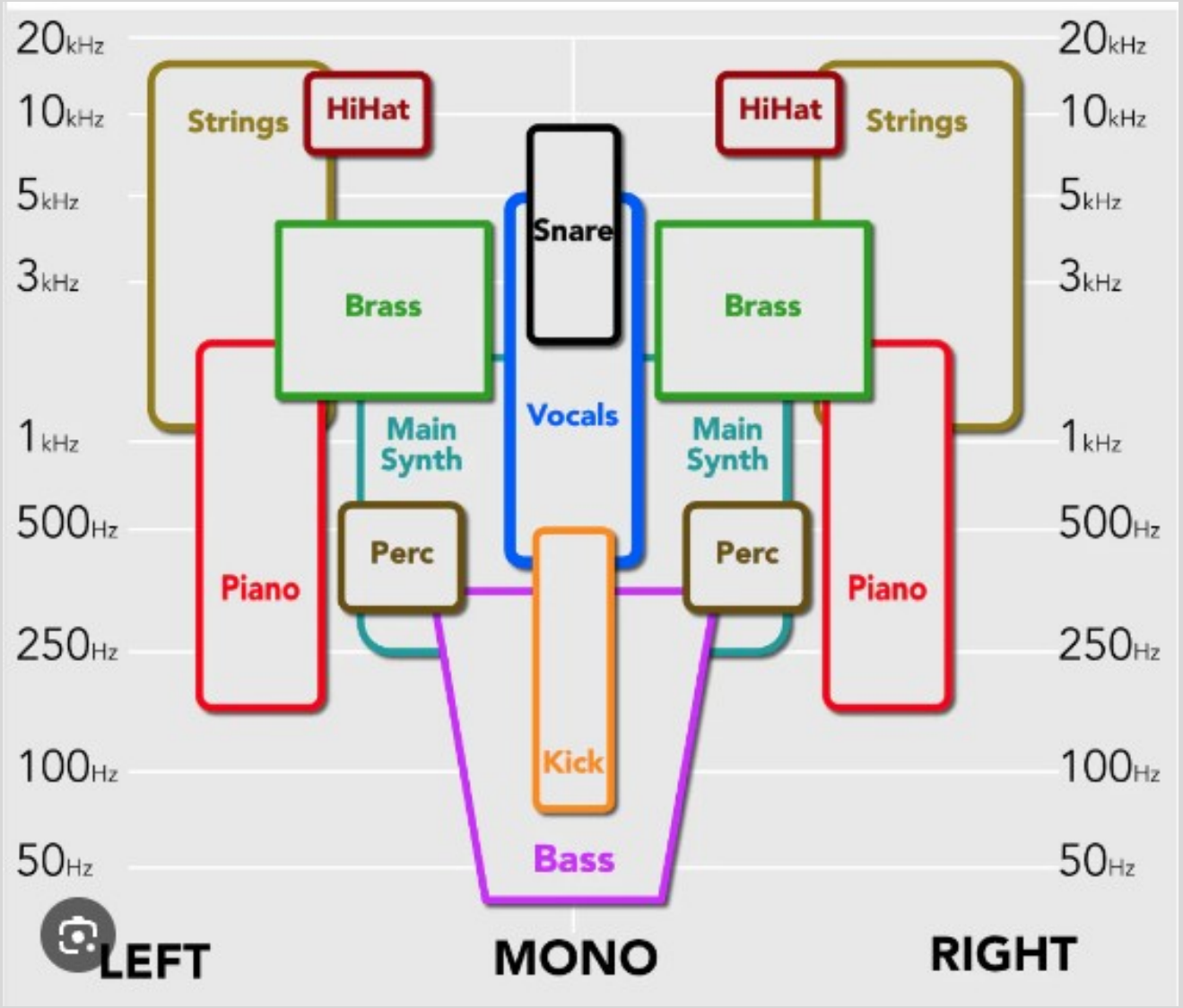


What is the Aim of Mixing?

Exporting a mix.



Mixing

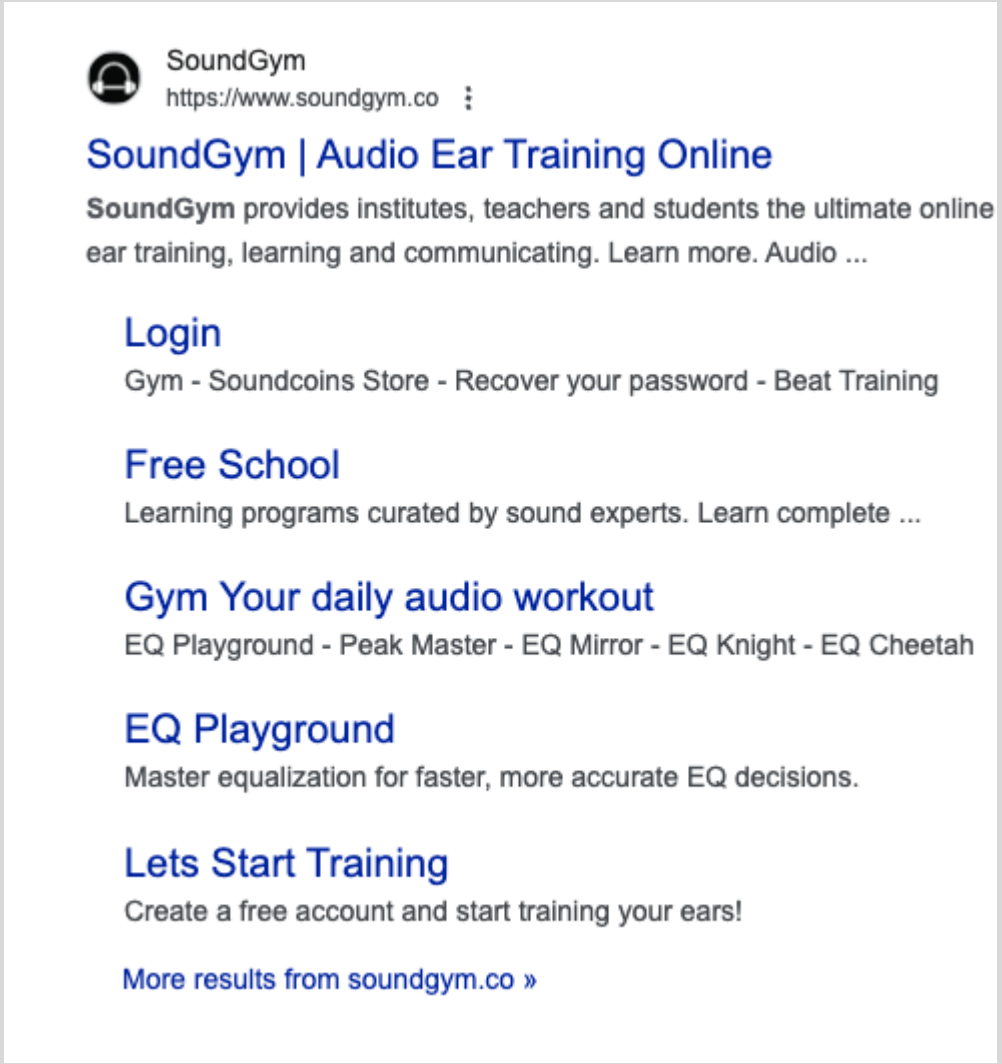

20kHz
10kHz
5kHz
3kHz
1kHz
500Hz
250Hz
100Hz
50Hz
Strings
HiHat
Brass
Snare
Vocals
Main Synth
Perc
Piano
Kick
Bass
HiHat
Strings
Brass
Main Synth
Perc
Piano
LEFT
MONO
RIGHT

Mixing Task

- Download the zip file from the vle
- Create a folder on the desktop called 'my father never loved me'
- Put the zip file in there and expand.
- Create a logic project and save it into the same folder
- Import the audio files (drag and drop)
- Balance the faders (turn them all down the bring them up slowly one at a time
- Pan the instruments
- Export the mix (16bit Wav)

Sound Gym

- Go to Soundgym
- Create an account with a non-college email e.g. gmail

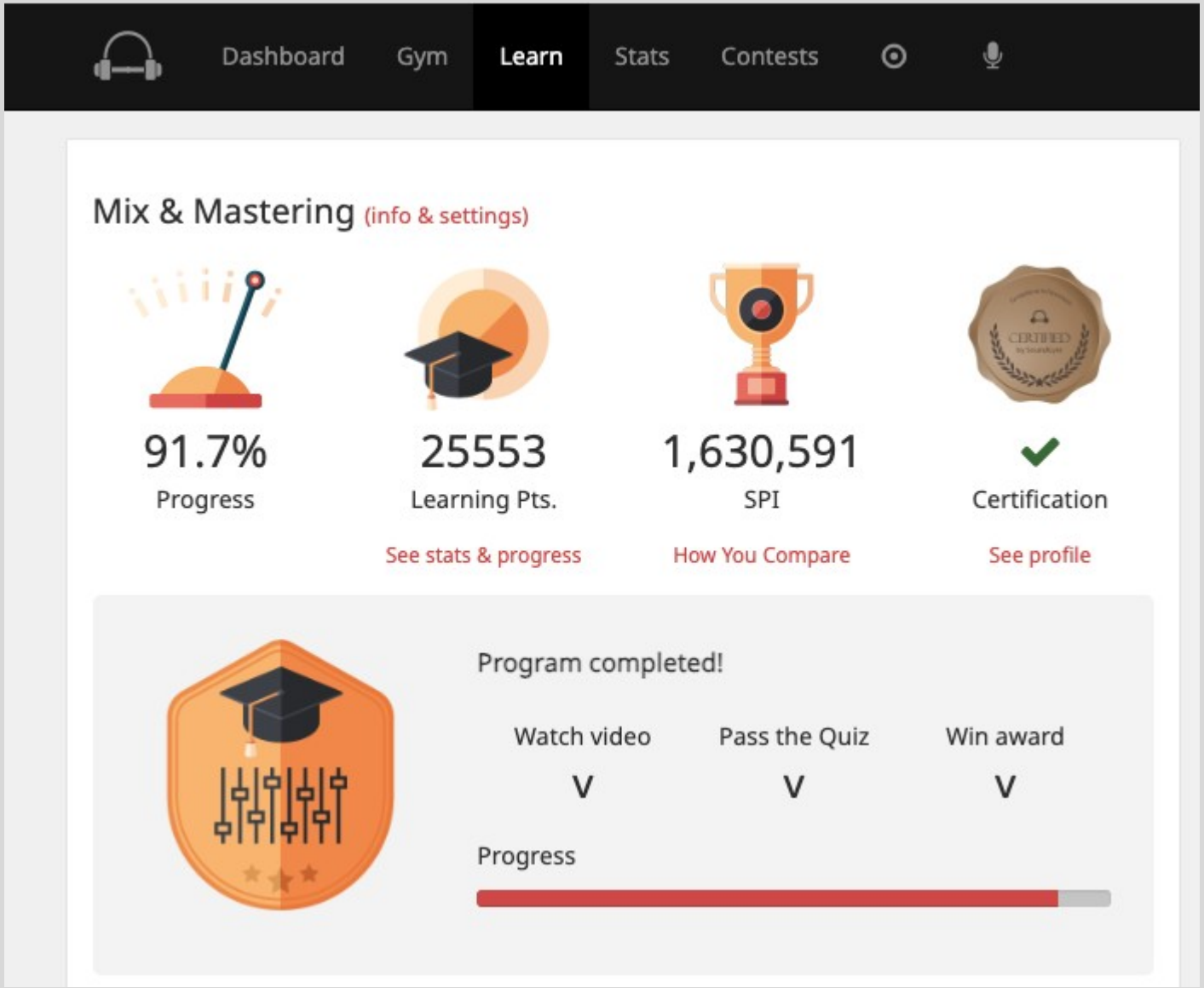

SoundGym
https://www.soundgym.co
SoundGym | Audio Ear Training Online
SoundGym provides institutes, teachers and students the ultimate online ear training, learning and communicating. Learn more. Audio ...
Login
Gym - Soundcoins Store - Recover your password - Beat Training
Free School
Learning programs curated by sound experts. Learn complete ...
Gym Your daily audio workout
EQ Playground - Peak Master - EQ Mirror - EQ Knight - EQ Cheetah
EQ Playground
Master equalization for faster, more accurate EQ decisions.
Lets Start Training
Create a free account and start training your ears!
More results from soundgym.co »

Mixing

- Download the zip folder from the VLE
- Enrol on the sound gym mixing and mastering course; watch the videos that fit with what you need.
- Practice mixing.

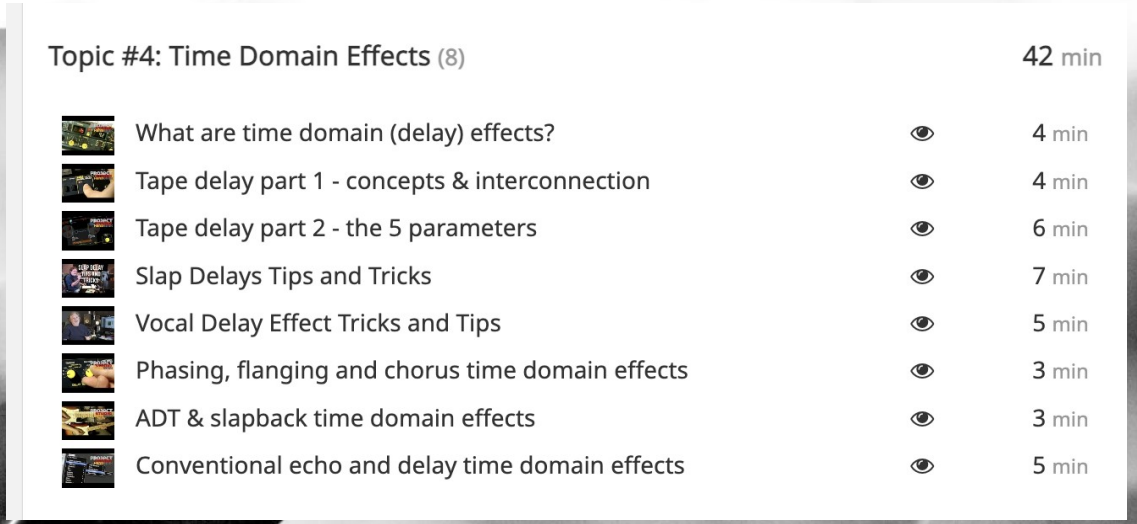
Sound Gym

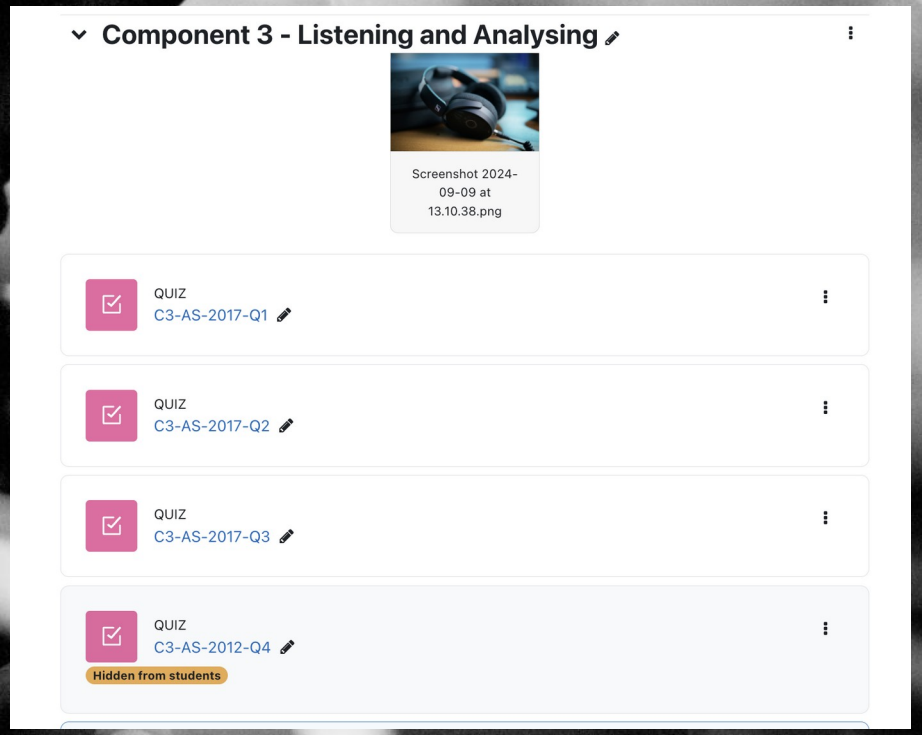
- Navigate to the learn section and enrol on mix and mastering

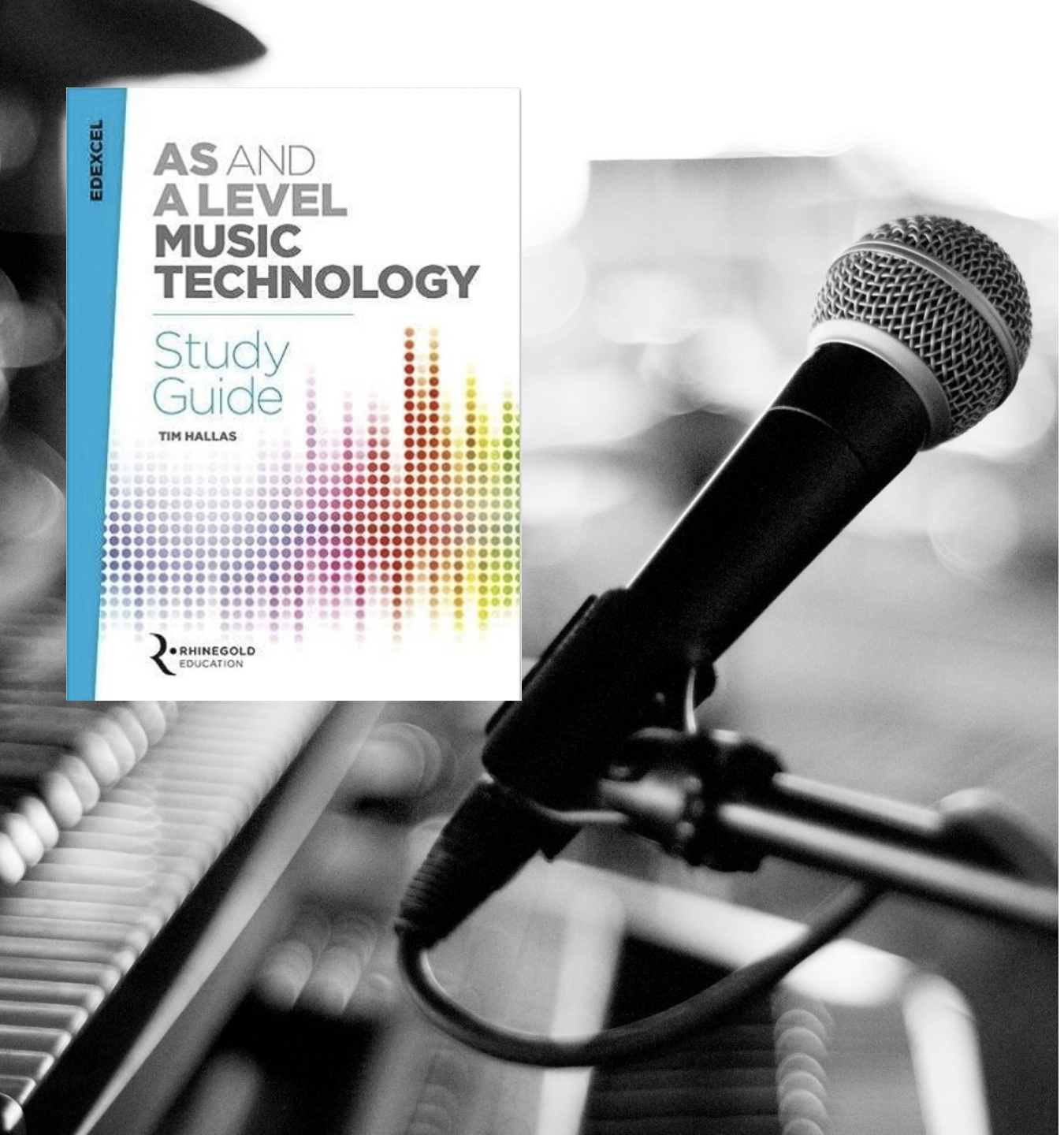


Homework

- Watch the videos for topic 3 for homework.
- Do the moodle/vle quiz


Topic #4: Time Domain Effects (8)
42 min
What are time domain (delay) effects?
4 min
Tape delay part 1 - concepts & interconnection
4 min
Tape delay part 2 - the 5 parameters
6 min
Slap Delays Tips and Tricks
7 min
Vocal Delay Effect Tricks and Tips
5 min
Phasing, flanging and chorus time domain effects
3 min
ADT & slapback time domain effects
3 min
Conventional echo and delay time domain effects
5 min





Vocab test

- Learn key terms from p161 in the glossary